

Amendments to the Claims

Please amend claims 1-17 as follows:

Claims 1-9 and 18 (withdrawn)

Claims 10-12, 15-17 (currently amended)

Claim 13 (cancelled)

Claim 14 (original)

10. A method for protecting an porcine animal against disease caused by *Mycoplasma hyopneumoniae* comprising the step of administering to said porcine animal a vaccine composition which comprises

an immunizing amount of a *Mycoplasma hyopneumoniae* bacterin;

an adjuvant mixture comprising a polyacrylic acid polymer and a mixture of

metabolizable oil and a polyoxyethylene-polypropylene block copolymer;

a pharmaceutical pharmaceutically acceptable carrier which vaccine composition,

after a single administration elicits protective immunity from *Mycoplasma hyopneumoniae* infection; and

wherein the step of administering to said porcine animal is done by a method chosen from the group consisting of, intramuscular injection, subcutaneous injection, oral administration and nasal administration.

11. The method of claim 10, wherein the immunizing amount of said bacteria-bacterin is about 1×10^8 to 3×10^{11} Mycoplasma hyopneumoniae DNA Cell equivalents, (MHDCE/mL).

12. The method according to claim 11 wherein the immunizing amount of said bacteria bacterin is about 1×10^9 to 3×10^9 MHDCE/mL.

14. The method of claim 10, wherein the adjuvant mixture consists of a polyacrylic acid polymer and a mixture of metabolizable oil that comprises one or more terpene hydrocarbons and a polyoxyethylene-polypropylene block copolymer present in a final concentration of about 1-25% v/v.

15. The method of claim 14, wherein the polyacrylic acid polymer of the adjuvant mixture is CarbopolCARBOPOL.

16. The method of claim 14, wherein the metabolizable oil of the adjuvant mixture is a terpene hydrocarbon selected from the group consisting of- squalene and squalane.

17. The method of any claims 10-16, further comprising coadministering at least one additional bacterin selected from the group consisting of Haemophilus Haemophilus parasuis; Pasteurella multocidamultocida; Streptococcus-Streptococcus suis; Actinobacillus pleuropneumoniae; Bordetella bronchiseptica; Salmonella choleraesuis; and leptospira bacteria.